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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/506,955	11/17/2004	Hiroyuki Tawada	3034 US0P	6911
23115 TAKEDA PHA	7590 07/19/2007	EXAMINER		
TAKEDA PHARMACEUTICALS NORTH AMERICA, INC INTELLECTUAL PROPERTY DEPARTMENT ONE TAKEDA PARKWAY DEERFIELD, IL 60015			COLEMAN, BRENDA LIBBY	
			ART UNIT	PAPER NUMBER
			1624	
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			07/19/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

## Diffice Action Summary Total MailLing DaTE of this communication appears on the cover sheet with the correspondence address - Period for Reply			Application No.	Applicant(s)					
Examiner Brends L. Coleman 1624 162	Office Action Summary		10/506.955	TAWADA ET AL.	TAWADA ET AL.				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Edentated time may be available useful the growther of 37 CPT 1.130(a), in no event, however, may a reply be timely filled in the communication of 37 CPT 1.130(a), in no event, however, may a reply be timely filled in 18 Depted for reply is specified above, the maximum statutory period will exply and will express SIX (8) MONTHS from the mailing date of this communication. Peaks to reprove within the set or cented period for reply is specified above, the maximum statutory access the application become ABANDONED 160 US U.S. C. § 133). Any moly received by the billed better than these markets after the mailing date of this communication, even if timely filed, may reduce any seemed planter than adjustment. Set 7 CPT 1.79(b). Status 1) ■ Responsive to communication(s) filled on 14 April 2007. 2a) ■ This action is FINAL. 2b) ■ This action is non-final. 3) ■ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) ■ Claim(s) 1-20 Is/are pending in the application. 4a) Of the above claim(s) 3-20 Is/are withdrawn from consideration. 5) ■ Claim(s) 1-30 Is/are allowed. 6) ■ Claim(s) 1-30 Is/are allowed. 6) ■ Claim(s) 1-30 Is/are rejected. 7) ■ Claim(s) 1-30 Is/are rejected. 7) ■ Claim(s) 1-30 Is/are rejected to by the Examiner. Application Papers 9) ■ The specification is objected to by the Examiner. Application Papers 9) ■ The reducing of the prioridy document is have been received in Application of form PTO-152. Priority under 35 U.S.C. § 119 12) ■ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ■ All b) ■ Some *c) ■ N					· .				
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3) Notice of Informal Patent Application			Paper No	o(s)/Mail Date					
Paper No(s)/Mail Date <u>11/17/07</u> . 6)									

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DETAILED ACTION

Claims 1-20 are pending in the application.

Election/Restrictions

1. Applicant's election with traverse of Group III in the reply filed on April 14, 2007 is acknowledged. The traversal is on the ground(s) that claims 1-5 possess unity of invention and thus should be examined together. This is not found persuasive because a search of the final product is not inclusive of the intermediates and thus a separate search of each intermediate is independent of the other. None of the rings or ring systems for formula I (m = 1), I (m = 2), I (m = 3), I (m = 4), I (m = 5), II, XIa, IX', IX, VIII, VII', VII, X' and X are art recognized equivalents.

Note MPEP 2173.05(h) "where a Markush expression is applied only to a portion of a chemical compound, the propriety of the grouping is determined by a consideration of the compound as a whole, and does not depend on there being a community of properties in the members of the Markush expression. Therefore, what should be considered for patentable distinctness is the compound as a whole. Would a whole compound where the compound is a compound of formula I (m = 3 forming a benzazocine ring system) be patentably distinct from a whole compound where the compound is an imidazole? If a reference for one would not be a reference for the other, then restriction is considered proper. It is the compound as a whole a benzazocine of formula I (m = 3) vs. benzazepine of formula I (m = 2) vs. an imidazole of formula II, etc., that must be considered for patentable distinctness.

Thus, separate searches in the literature would be required. However, should applicant traverse on the ground that the species are not patentably distinct, applicant

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should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

The requirement is still deemed proper and is therefore made FINAL.

2. Claims 3-20 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected invention, there being no allowable generic or linking claim. Applicant timely traversed the restriction (election) requirement in the reply filed on April 14, 2007.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter, which the applicant regards as his invention.

- 3. Claims 1 and 2 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The following reasons apply:
 - a) Claims 1 and 2 are vague and indefinite in that it is not known what is meant by "optionally substituted hydroxyl". Hydroxyl is an OH group of which both the oxygen atom and the hydrogen are valence satisfied and thus cannot be substituted.

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b) Claims 1 and 2 are vague and indefinite in that it is not known what is meant by "optionally substituted thiol". Thiol is an SH group of which both the sulfur atom and the hydrogen are valence satisfied and thus cannot be substituted.

- c) Claims 1 and 2 are vague and indefinite in that it is not known what is meant by "optionally substituted sulfony!".
- d) Claims 1 and 2 are vague and indefinite in that it is not known what is meant by "derivative" which implies more than what is positively recited.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- (f) he did not himself invent the subject matter sought to be patented.
- 4. Claims 1 and 2 are rejected under 35 U.S.C. 102(a and e) as being anticipated by Shiraishi et al., WO 2003/14105 (U.S. 20040259876). Shiraishi teaches the process of preparing the compounds of formula (I) by reacting the carboxylic acid of formula III with the amino substituted compound of formula II. See claim 28.

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5. Claims 1 and 2 are rejected under 35 U.S.C. 102(f) because the applicant did not invent the claimed subject matter. There are no common inventors in the instant application.

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

6. Claims 1 and 2 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claim 28 of copending Application No. 10/484,762. Although the conflicting claims are not identical, they are not patentably distinct from each other because the process of preparing the compounds of formula I by reacting the carboxylic acid of formula III with the amino substituted compound of formula II of the instant invention is embraced by the process of preparing the benzazocine compounds of the formula set forth in claim 28 of 10/484,762.

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This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brenda L. Coleman whose telephone number is 571-272-0665. The examiner can normally be reached on 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James O. Wilson can be reached on 571-272-0661. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Brenda L. Coleman

Primary Examiner Art Unit 1624

Friday, June 22, 2007